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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/889,406	09/20/2001	Shu Kobayashi	2001-1009A	2639
513	7590 01/21/2004		EXAMINER	
WENDEROTH, LIND & PONACK, L.L.P. 2033 K STREET N. W.			ŁAVILLA, MICHAEL E	
2033 K STRE SUITE 800	cel N. W.		ART UNIT PAPER NUMBER  1775	
WASHINGT	ON, DC 20006-1021			

DATE MAILED: 01/21/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

_			And				
	Application No.	Applicant(s)					
_	09/889,406	KOBAYASHI, SHU					
Office Action Summary	Examiner	Art Unit					
	Michael La Villa	1775					
Th MAILING DATE of this communication appears on the cover sheet with the correspondence address							
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status							
1) Responsive to communication(s) filed on 20 S	September 2001.	•					
2a) ☐ This action is <b>FINAL</b> . 2b) ☒ This	action is non-final.						
	,—						
Disposition of Claims							
4) Claim(s) <u>1-8</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdra	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-8</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/o	or election requirement.						
Application Papers		•					
9) The specification is objected to by the Examiner.							
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. §§ 119 and 120 12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☑ All b) ☐ Some * c) ☐ None of:  1. ☐ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No  3. ☑ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet.  37 CFR 1.78.  a) ☐ The translation of the foreign language provisional application has been received.							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.							
Totolonoe was included in the first sentence of the specification of in an Application Data Sheet, 37 CFR 1.78.							
Attachment(s)							
I) ⊠ Notice of References Cited (PTO-892)  2) □ Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) ☑ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 5	4) Interview Summary 5) Notice of Informal P 6) Other:						

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#### **DETAILED ACTION**

# Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the second paragraph of 35 U.S.C. 112:
- 2. The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 1-8 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
  - I. Regarding Claim 1, it is unclear what is meant by the phrase "linked and supported on a polymer film." It is unclear whether this limitation requires that the catalyst be bonded to a polymer molecule of the film or whether this is not necessarily required.
  - II. Regarding Claim 2, it is unclear what is meant by the phrase "linked and supported on a polymer chain." It is unclear whether this claim is further limiting of the requirement of Claim 1 of linking and supporting on a polymer film. It is unclear what is the relationship, if any, between the polymeric film and polymeric chain. It is unclear whether this limitation requires that the catalyst be bonded to a polymer molecule of a chain or whether this is not necessarily required.
  - III. Regarding Claim 5, it is unclear what is the antecedent basis of the phrase "the polymeric chain."

### Claim Objections

4. Claim 2 is objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is

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required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. Claim 2 is objected to for not being further limiting because Claim 2 may not require support on a polymeric film, but rather support on a polymeric chain, which may constitute broader subject matter.

## Claim Rejections - 35 USC § 102

- 5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:
- 6. A person shall be entitled to a patent unless -
- 7. (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 8. Claims 1-3 are rejected under 35 U.S.C. 102(b) as being anticipated by Harmer et al. USP 6,034,290. Harmer teaches a polymer supported Lewis acid catalyst comprised of PFIEP polymer that is linked through sulfonic acid groups to ruthenium chelated catalyst. See Harmer (Abstract; col. 4, lines 15-58; col. 5, lines 21-33; col. 5, line 66 through col. 6, line 11; col. 6, lines 49-59; col. 10, line 50 through col. 11, line 11; col. 16, lines 19-62).

#### Allowable Subject Matter

9. Claims 4-8 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims. The subject matter of Claims 4-8 is not taught or suggested by the prior art of record nor by the reviewed prior art. Particularly, the claimed spacer chain of Claim 4, the claimed

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polymer chain of Claim 5, the claimed M elements of Claim 6, and the reaction method of Claims 7 and 8 are not taught or suggested.

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#### Conclusion

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael La Villa whose telephone number is (571) 272-1539. The examiner can normally be reached on Monday through Friday.

11. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Deborah Jones can be reached on (571) 272-1535. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Michael La Villa 11 January 2004

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